

## SEQUENCE LISTING

## (1) GENERAL INFORMATION:

- (i) APPLICANT: Rybak, Susanna M.  
Newton, Dianne L.  
Goldenberg, David M.
- (ii) TITLE OF INVENTION: Immunotoxins Directed Against Malignant Cells
- (iii) NUMBER OF SEQUENCES: 3
- (iv) CORRESPONDENCE ADDRESS:  
(A) ADDRESSEE: Townsend and Townsend and Crew LLP  
(B) STREET: Two Embarcadero Center, Eighth Floor  
(C) CITY: San Francisco  
(D) STATE: California  
(E) COUNTRY: USA  
(F) ZIP: 94111-3834
- (v) COMPUTER READABLE FORM:  
(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:  
(A) APPLICATION NUMBER: US 09/071,672  
(B) FILING DATE: 01-MAY-1998  
(C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:  
(A) APPLICATION NUMBER: US 60/046,895  
(B) FILING DATE: 02-MAY-1997
- (viii) ATTORNEY/AGENT INFORMATION:  
(A) NAME: Weber, Ellen Lauver  
(B) REGISTRATION NUMBER: 32,762  
(C) REFERENCE/DOCKET NUMBER: 015280-32510US
- (ix) TELECOMMUNICATION INFORMATION:  
(A) TELEPHONE: (415) 576-0200  
(B) TELEFAX: (415) 576-0300

## (2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 104 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (D) OTHER INFORMATION: /product= "OTHER"  
/note= "Xaa = Glu or pyroglutamic acid"

## (ix) FEATURE:

- (A) NAME/KEY: Protein
- (B) LOCATION: 1..104
- (D) OTHER INFORMATION: /note= "RNase A derived from  
Rana pipiens, "onc protein""

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Xaa Asp Trp Leu Thr Phe Gln Lys Lys His Ile Thr Asn Thr Arg Asp  
 1 5 10 15  
 Val Asp Cys Asp Asn Ile Met Ser Thr Asn Leu Phe His Cys Lys Asp  
 20 25 30  
 Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile Cys  
 35 40 45  
 Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe Tyr  
 50 55 60  
 Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu Lys  
 65 70 75 80  
 Lys Ser Thr Asn Lys Phe Cys Val Thr Cys Glu Asn Gln Ala Pro Val  
 85 90 95  
 His Phe Val Gly Val Gly Ser Cys  
 100

## (2) INFORMATION FOR SEQ ID NO:2:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: DNA

## (ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..249
- (D) OTHER INFORMATION: /note= "nucleic acid encoding  
"onc protein""

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

GATGTTGATT GTGATAATAT CATGTCAACA AACTTGTTCC ACTGCAAGGA CAAGAACACT 60  
 TTTATCTATT CACGTCCTGA GCCAGTGAAG GCCATCTGTA AAGGAATTAT AGCCTCCAAA 120

T00249 25937650

(2) INFORMATION FOR SEQ ID NO:3:

(A) LENGTH: 83 amino acids

(C) STRANDEDNESS:

(ii) MOLECULE TYPE: protein

(A) NAME/KEY: Protein

(D) OTHER INFORMATION: /note= "onc protein", positions 16-98  
of SEQ ID NO:1"

Asp Val Asp Cys Asp Asn Ile Met Ser Thr Asn Leu Phe His Cys Lys  
1 5 10 15

Asp Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile  
20 25 30

Cys Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe  
35 40 45

Tyr Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu  
50 55 60

Lys Lys Ser Thr Asn Lys Phe Cys Val Thr Cys Glu Asn Gln Ala Pro  
65 70 75 80

Val His Phe